

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600SR300-68

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 600RX14

PROPERTIES:

A. Web (in)	6"	Yield Strength F_y (KSI)	50
B. Flange (in)	3"	Tensile Strength F_u (KSI)	65
C. Lip (in)	0.625"	Design Thickness (in)	0.0713
Mils	68	Minimum Thickness (in)	0.677
Available Finish	CP60, CP90	Gauge	14

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	2.72
Cross Sectional Area: A (in ²)	0.733
Moment of Inertia: I_x (in ⁴)	5.27
Section Modulus: S_x (in ³)	1.76
Radius of Gyration: R_x (in)	2.68
Gross Moment of Inertia: I_y (in ⁴)	0.873
Gross Radius of Gyration: R_y (in)	1.09

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xed} (in ⁴)	4.98
Section Modulus: S_{xe} (in ³)	1.39
Allowable Bending Moment: Ma (in-k)	41.6
Allowable Shear Force: Va (K)	1.21

TORSIONAL SECTION PROPERTIES

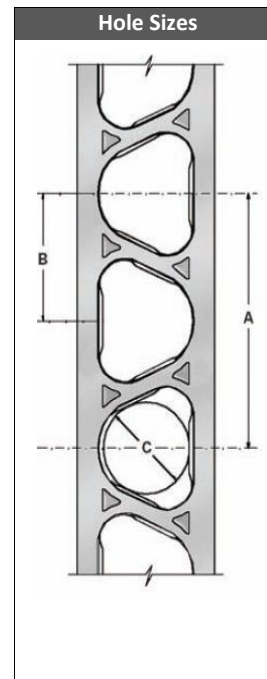
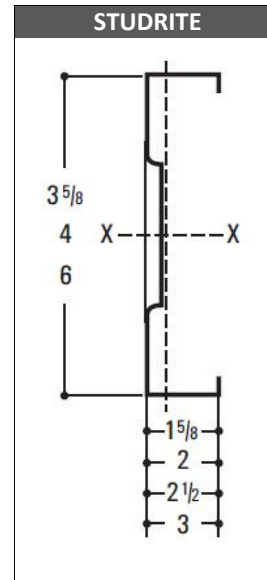
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.24
Torsional Warping Constant: C_w (in ⁶)	7.56
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-2.56
Distance From Shear Center to Mid-Plane of Web m (in.)	1.41
Radius of Gyration on the Centroid Principal axis: r_o (in.)	3.87
$1 - (x_o/r_o)^2 = \beta$	0.561
Critical Unbraced Length, lateral torsional buckling excluded L_u (in.)	55.6

CODES & STANDARDS

- Meets ASTM A 1003, A 653, C955 & AISI S240
- Coating meets ASTM C 955 / AISI S240
- Meets IBC 2021, 2018
- IAPMO ES ER-0781

GREEN INFO

- LEED v4 credits available
- Contact Technical Services for more information



Section	A (in)	B (in)	C
3-5/8"	7.0	3.5	1-3/4
4"	7.0	3.5	1-3/4
6"	8.1	4.0	2-7/8



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

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